



SECTION DETAILS

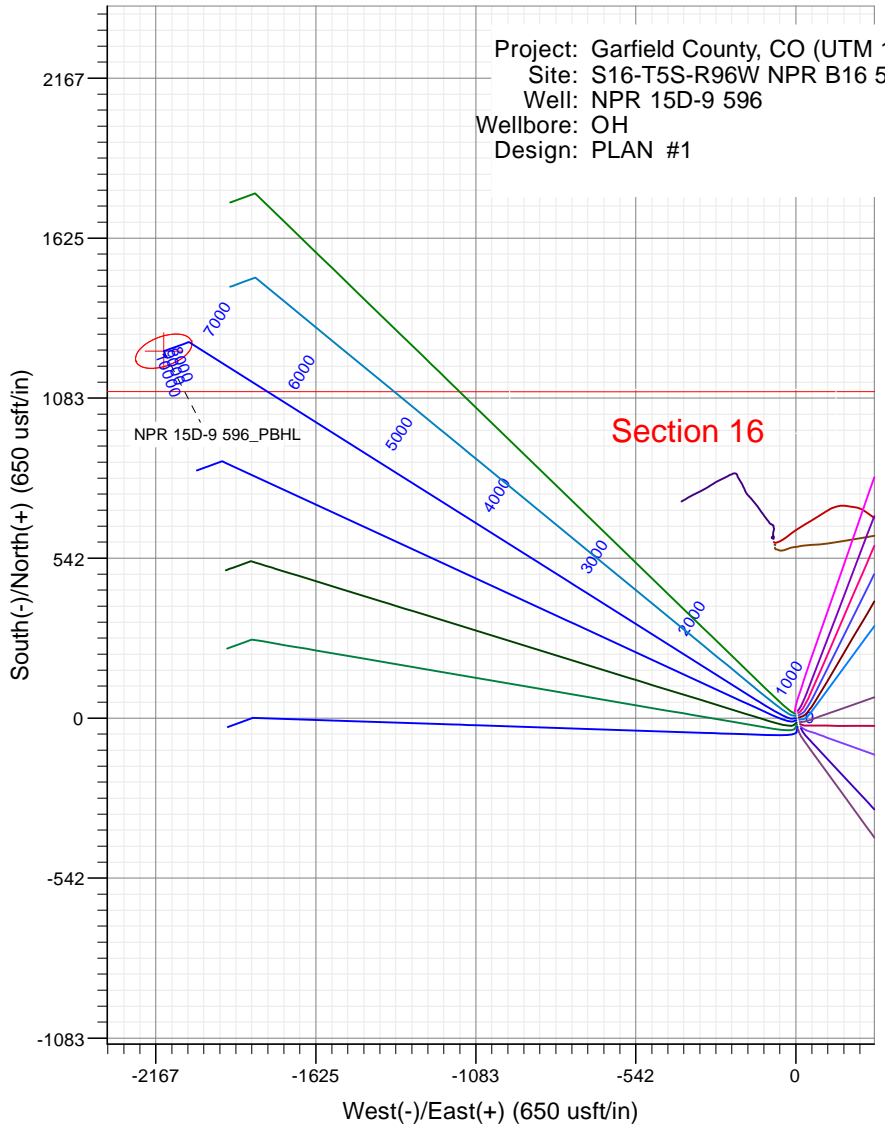
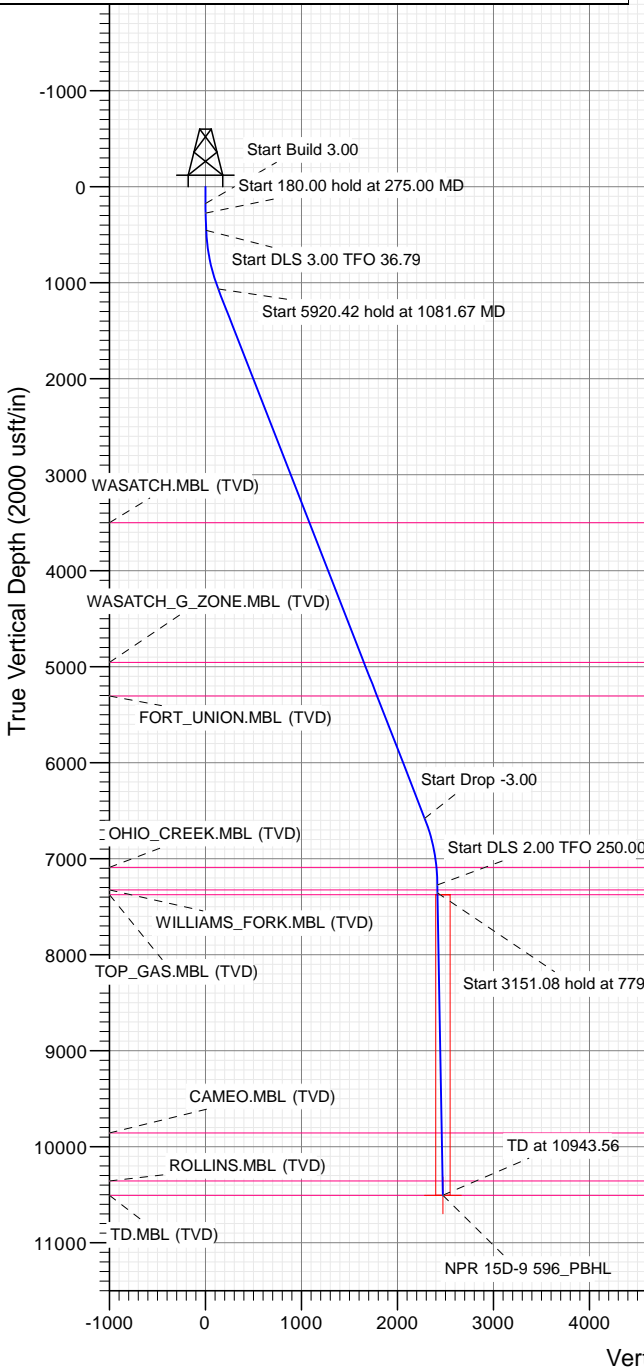
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	175.00	0.00	0.00	175.00	0.00	0.00	0.00	0.00	0.00	
3	275.00	3.00	260.00	274.95	-0.45	-2.58	3.00	260.00	2.00	
4	455.00	3.00	260.00	454.71	-2.09	-11.85	0.00	0.00	9.20	
5	1095.08	21.32	302.24	1078.29	57.64	-127.87	3.00	48.00	139.52	
6	7001.64	21.32	302.24	6580.55	1203.31	-1944.47	0.00	0.00	2285.77	
7	7712.38	0.00	0.00	7275.00	1273.05	-2055.04	3.00	180.00	2416.41	
8	7793.58	1.62	250.00	7356.19	1272.65	-2056.12	2.00	250.00	2417.14	
9	10944.66	1.62	250.00	10506.00	1242.11	-2140.04	0.00	0.00	2474.39	NPR 15D-9 596_PBHL

PLAN #1
NPR 15D-9 596
GL + KB @ 8321.00est (Original Well Elev)
Ground Level @ 8291.00
NAD 1927 - Western US
Well NPR 15D-9 596 - Slot 15D, True North

Type	Target	Asimuth	Origin Type	N/S	E/W	From TVD
TD	No Target (Freehand)	300.13	Slot	0.00	0.00	0.00

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
NPR 15D-9 596_PBHL	10506.00	1242.11	-2140.04	39.622728	-108.178845

Project: Garfield County, CO (UTM 12N)
Site: S16-T5S-R96W NPR B16 596
Well: NPR 15D-9 596
Wellbore: OH
Design: PLAN #1



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3500.00	3694.73	WASATCH.MBL (TVD)
4955.00	5256.65	WASATCH_G_ZONE.MBL (TVD)
5305.00	5632.36	FORT_UNION.MBL (TVD)
7091.00	7528.10	OHIO_CREEK.MBL (TVD)
7325.00	7762.38	WILLIAMS_FORK.MBL (TVD)
7375.00	7812.40	TOP_GAS.MBL (TVD)
9856.00	10294.40	CAMEO.MBL (TVD)
10356.00	10794.60	ROLLINS.MBL (TVD)
10506.00	10944.66	TD.MBL (TVD)

T M
Azimuths to True North
Magnetic North: 9.65°

Magnetic Field
Strength: 51443.2nT
Dip Angle: 65.90°
Date: 6/15/2018
Model: HDGM_FILE



WELL DETAILS: NPR 15D-9 596

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	15D
0.00	0.00	14399975.60	2437045.70	39.619319	-108.171351	



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well NPR 15D-9 596 - Slot 15D
Company:	Caerus Oil & Gas	TVD Reference:	GL + KB @ 8321.00usft (Original Well Elev)
Project:	Garfield County, CO (UTM 12N)	MD Reference:	GL + KB @ 8321.00usft (Original Well Elev)
Site:	S16-T5S-R96W NPR B16 596	North Reference:	True
Well:	NPR 15D-9 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Garfield County, CO (UTM 12N)		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	S16-T5S-R96W NPR B16 596				
Site Position:		Northing:	14,399,939.00 usft	Latitude:	39.619218
From:	Map	Easting:	2,437,053.80 usft	Longitude:	-108.171326
Position Uncertainty:	3.28 usft	Slot Radius:	13-3/16"	Grid Convergence:	1.80 °

Well	NPR 15D-9 596 - Slot 15D					
Well Position	+N/-S	0.00 usft	Northing:	14,399,975.60 usft	Latitude:	39.619319
	+E/-W	0.00 usft	Easting:	2,437,045.70 usft	Longitude:	-108.171351
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	8,291.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM_FILE	6/15/2018	9.65	65.90	51,443.20000000

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	300.13

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
175.00	0.00	0.00	175.00	0.00	0.00	0.00	0.00	0.00	0.00	
275.00	3.00	260.00	274.95	-0.45	-2.58	3.00	3.00	0.00	260.00	
455.00	3.00	260.00	454.71	-2.09	-11.85	0.00	0.00	0.00	0.00	
1,095.08	21.32	302.24	1,078.29	57.64	-127.87	3.00	2.86	6.60	48.00	
7,001.64	21.32	302.24	6,580.55	1,203.31	-1,944.47	0.00	0.00	0.00	0.00	
7,712.38	0.00	0.00	7,275.00	1,273.05	-2,055.04	3.00	-3.00	0.00	180.00	
7,793.58	1.62	250.00	7,356.19	1,272.65	-2,056.12	2.00	2.00	-135.46	250.00	
10,944.66	1.62	250.00	10,506.00	1,242.11	-2,140.04	0.00	0.00	0.00	0.00	NPR 15D-9 596_PBH

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well NPR 15D-9 596 - Slot 15D
Company:	Caerus Oil & Gas	TVD Reference:	GL + KB @ 8321.00usft (Original Well Elev)
Project:	Garfield County, CO (UTM 12N)	MD Reference:	GL + KB @ 8321.00usft (Original Well Elev)
Site:	S16-T5S-R96W NPR B16 596	North Reference:	True
Well:	NPR 15D-9 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	
175.00	0.00	0.00	175.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
200.00	0.75	260.00	200.00	-0.03	-0.16	0.13	3.00	3.00	
275.00	3.00	260.00	274.95	-0.45	-2.58	2.00	3.00	3.00	Start 180.00 hold at 275.00 MD
300.00	3.00	260.00	299.92	-0.68	-3.87	3.00	0.00	0.00	
400.00	3.00	260.00	399.78	-1.59	-9.02	7.00	0.00	0.00	
455.00	3.00	260.00	454.71	-2.09	-11.85	9.20	0.00	0.00	Start DLS 3.00 TFO 36.79
500.00	4.03	274.43	499.62	-2.17	-14.59	11.53	3.00	2.29	
600.00	6.74	288.72	599.18	-0.02	-23.65	20.45	3.00	2.71	
700.00	9.62	294.68	698.15	5.35	-36.80	34.51	3.00	2.88	
800.00	12.55	297.90	796.28	13.93	-54.00	53.70	3.00	2.94	
900.00	15.52	299.90	893.28	25.68	-75.21	77.94	3.00	2.96	
1,000.00	18.49	301.28	988.90	40.59	-100.36	107.17	3.00	2.97	
1,081.67	20.92	302.12	1,065.78	55.06	-123.78	134.69	3.00	2.98	Start 5920.42 hold at 1081.67 MD
1,095.08	21.32	302.24	1,078.29	57.64	-127.87	139.52	3.00	2.98	
1,100.00	21.32	302.24	1,082.87	58.59	-129.38	141.31	0.00	0.00	
1,200.00	21.32	302.24	1,176.03	77.99	-160.14	177.65	0.00	0.00	
1,300.00	21.32	302.24	1,269.18	97.39	-190.89	213.98	0.00	0.00	
1,400.00	21.32	302.24	1,362.34	116.78	-221.65	250.32	0.00	0.00	
1,500.00	21.32	302.24	1,455.49	136.18	-252.40	286.66	0.00	0.00	
1,600.00	21.32	302.24	1,548.65	155.58	-283.16	322.99	0.00	0.00	
1,700.00	21.32	302.24	1,641.80	174.97	-313.92	359.33	0.00	0.00	
1,800.00	21.32	302.24	1,734.96	194.37	-344.67	395.67	0.00	0.00	
1,900.00	21.32	302.24	1,828.11	213.77	-375.43	432.00	0.00	0.00	
2,000.00	21.32	302.24	1,921.27	233.16	-406.18	468.34	0.00	0.00	
2,100.00	21.32	302.24	2,014.42	252.56	-436.94	504.68	0.00	0.00	
2,200.00	21.32	302.24	2,107.58	271.95	-467.69	541.01	0.00	0.00	
2,300.00	21.32	302.24	2,200.73	291.35	-498.45	577.35	0.00	0.00	
2,400.00	21.32	302.24	2,293.89	310.75	-529.20	613.69	0.00	0.00	
2,500.00	21.32	302.24	2,387.04	330.14	-559.96	650.02	0.00	0.00	
2,600.00	21.32	302.24	2,480.20	349.54	-590.72	686.36	0.00	0.00	
2,700.00	21.32	302.24	2,573.35	368.94	-621.47	722.70	0.00	0.00	
2,800.00	21.32	302.24	2,666.51	388.33	-652.23	759.03	0.00	0.00	
2,900.00	21.32	302.24	2,759.66	407.73	-682.98	795.37	0.00	0.00	
3,000.00	21.32	302.24	2,852.82	427.13	-713.74	831.71	0.00	0.00	
3,100.00	21.32	302.24	2,945.97	446.52	-744.49	868.04	0.00	0.00	
3,200.00	21.32	302.24	3,039.13	465.92	-775.25	904.38	0.00	0.00	
3,300.00	21.32	302.24	3,132.29	485.32	-806.00	940.72	0.00	0.00	
3,400.00	21.32	302.24	3,225.44	504.71	-836.76	977.05	0.00	0.00	
3,500.00	21.32	302.24	3,318.60	524.11	-867.52	1,013.39	0.00	0.00	
3,600.00	21.32	302.24	3,411.75	543.51	-898.27	1,049.73	0.00	0.00	
3,694.73	21.32	302.24	3,500.00	561.88	-927.41	1,084.15	0.00	0.00	WASATCH.MBL (TVD)
3,700.00	21.32	302.24	3,504.91	562.90	-929.03	1,086.06	0.00	0.00	
3,800.00	21.32	302.24	3,598.06	582.30	-959.78	1,122.40	0.00	0.00	
3,900.00	21.32	302.24	3,691.22	601.70	-990.54	1,158.74	0.00	0.00	
4,000.00	21.32	302.24	3,784.37	621.09	-1,021.29	1,195.07	0.00	0.00	
4,100.00	21.32	302.24	3,877.53	640.49	-1,052.05	1,231.41	0.00	0.00	
4,200.00	21.32	302.24	3,970.68	659.89	-1,082.80	1,267.74	0.00	0.00	
4,300.00	21.32	302.24	4,063.84	679.28	-1,113.56	1,304.08	0.00	0.00	
4,400.00	21.32	302.24	4,156.99	698.68	-1,144.32	1,340.42	0.00	0.00	
4,500.00	21.32	302.24	4,250.15	718.08	-1,175.07	1,376.75	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well NPR 15D-9 596 - Slot 15D
Company:	Caerus Oil & Gas	TVD Reference:	GL + KB @ 8321.00usft (Original Well Elev)
Project:	Garfield County, CO (UTM 12N)	MD Reference:	GL + KB @ 8321.00usft (Original Well Elev)
Site:	S16-T5S-R96W NPR B16 596	North Reference:	True
Well:	NPR 15D-9 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
4,600.00	21.32	302.24	4,343.30	737.47	-1,205.83	1,413.09	0.00	0.00	
4,700.00	21.32	302.24	4,436.46	756.87	-1,236.58	1,449.43	0.00	0.00	
4,800.00	21.32	302.24	4,529.61	776.27	-1,267.34	1,485.76	0.00	0.00	
4,900.00	21.32	302.24	4,622.77	795.66	-1,298.09	1,522.10	0.00	0.00	
5,000.00	21.32	302.24	4,715.92	815.06	-1,328.85	1,558.44	0.00	0.00	
5,100.00	21.32	302.24	4,809.08	834.46	-1,359.60	1,594.77	0.00	0.00	
5,200.00	21.32	302.24	4,902.23	853.85	-1,390.36	1,631.11	0.00	0.00	
5,256.65	21.32	302.24	4,955.00	864.84	-1,407.78	1,651.69	0.00	0.00	WASATCH_G_ZONE.MBL (TVD)
5,300.00	21.32	302.24	4,995.39	873.25	-1,421.12	1,667.45	0.00	0.00	
5,400.00	21.32	302.24	5,088.54	892.65	-1,451.87	1,703.78	0.00	0.00	
5,500.00	21.32	302.24	5,181.70	912.04	-1,482.63	1,740.12	0.00	0.00	
5,600.00	21.32	302.24	5,274.85	931.44	-1,513.38	1,776.46	0.00	0.00	
5,632.36	21.32	302.24	5,305.00	937.72	-1,523.34	1,788.22	0.00	0.00	FORT_UNION.MBL (TVD)
5,700.00	21.32	302.24	5,368.01	950.83	-1,544.14	1,812.79	0.00	0.00	
5,800.00	21.32	302.24	5,461.16	970.23	-1,574.89	1,849.13	0.00	0.00	
5,900.00	21.32	302.24	5,554.32	989.63	-1,605.65	1,885.47	0.00	0.00	
6,000.00	21.32	302.24	5,647.47	1,009.02	-1,636.40	1,921.80	0.00	0.00	
6,100.00	21.32	302.24	5,740.63	1,028.42	-1,667.16	1,958.14	0.00	0.00	
6,200.00	21.32	302.24	5,833.78	1,047.82	-1,697.92	1,994.48	0.00	0.00	
6,300.00	21.32	302.24	5,926.94	1,067.21	-1,728.67	2,030.81	0.00	0.00	
6,400.00	21.32	302.24	6,020.09	1,086.61	-1,759.43	2,067.15	0.00	0.00	
6,500.00	21.32	302.24	6,113.25	1,106.01	-1,790.18	2,103.49	0.00	0.00	
6,600.00	21.32	302.24	6,206.40	1,125.40	-1,820.94	2,139.82	0.00	0.00	
6,700.00	21.32	302.24	6,299.56	1,144.80	-1,851.69	2,176.16	0.00	0.00	
6,800.00	21.32	302.24	6,392.71	1,164.20	-1,882.45	2,212.49	0.00	0.00	
6,900.00	21.32	302.24	6,485.87	1,183.59	-1,913.20	2,248.83	0.00	0.00	
7,000.00	21.32	302.24	6,579.02	1,202.99	-1,943.96	2,285.17	0.00	0.00	
7,001.64	21.32	302.24	6,580.55	1,203.31	-1,944.47	2,285.77	0.00	0.00	
7,002.09	21.31	302.24	6,580.97	1,203.40	-1,944.60	2,285.93	3.00	-3.00	Start Drop -3.00
7,100.00	18.37	302.24	6,673.06	1,221.12	-1,972.71	2,319.13	3.00	-3.00	
7,200.00	15.37	302.24	6,768.74	1,236.60	-1,997.25	2,348.13	3.00	-3.00	
7,300.00	12.37	302.24	6,865.82	1,249.39	-2,017.53	2,372.09	3.00	-3.00	
7,400.00	9.37	302.24	6,964.01	1,259.45	-2,033.48	2,390.93	3.00	-3.00	
7,500.00	6.37	302.24	7,063.06	1,266.75	-2,045.06	2,404.62	3.00	-3.00	
7,528.10	5.53	302.24	7,091.00	1,268.31	-2,047.53	2,407.53	3.00	-3.00	OHIO_CREEK.MBL (TVD)
7,600.00	3.37	302.24	7,162.68	1,271.28	-2,052.24	2,413.10	3.00	-3.00	
7,700.00	0.37	302.24	7,262.62	1,273.02	-2,055.01	2,416.37	3.00	-3.00	
7,711.28	0.03	302.24	7,273.90	1,273.04	-2,055.04	2,416.40	3.00	-3.00	Start DLS 2.00 TFO 250.00
7,712.38	0.00	0.00	7,275.00	1,273.05	-2,055.04	2,416.41	3.00	-3.00	
7,762.38	1.00	250.00	7,325.00	1,272.90	-2,055.45	2,416.68	2.00	2.00	WILLIAMS_FORK.MBL (TVD)
7,792.48	1.60	250.00	7,355.09	1,272.66	-2,056.09	2,417.12	2.00	2.00	Start 3151.08 hold at 7792.48 MD
7,793.58	1.62	250.00	7,356.19	1,272.65	-2,056.12	2,417.14	2.00	2.00	
7,800.00	1.62	250.00	7,362.61	1,272.59	-2,056.29	2,417.26	0.00	0.00	
7,812.40	1.62	250.00	7,375.00	1,272.47	-2,056.62	2,417.48	0.00	0.00	TOP_GAS.MBL (TVD)
7,900.00	1.62	250.00	7,462.57	1,271.62	-2,058.96	2,419.08	0.00	0.00	
8,000.00	1.62	250.00	7,562.52	1,270.65	-2,061.62	2,420.89	0.00	0.00	
8,100.00	1.62	250.00	7,662.48	1,269.68	-2,064.28	2,422.71	0.00	0.00	
8,200.00	1.62	250.00	7,762.44	1,268.71	-2,066.95	2,424.53	0.00	0.00	
8,300.00	1.62	250.00	7,862.40	1,267.74	-2,069.61	2,426.34	0.00	0.00	
8,400.00	1.62	250.00	7,962.36	1,266.77	-2,072.27	2,428.16	0.00	0.00	
8,500.00	1.62	250.00	8,062.32	1,265.81	-2,074.94	2,429.98	0.00	0.00	
8,600.00	1.62	250.00	8,162.28	1,264.84	-2,077.60	2,431.79	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well NPR 15D-9 596 - Slot 15D
Company:	Caerus Oil & Gas	TVD Reference:	GL + KB @ 8321.00usft (Original Well Elev)
Project:	Garfield County, CO (UTM 12N)	MD Reference:	GL + KB @ 8321.00usft (Original Well Elev)
Site:	S16-T5S-R96W NPR B16 596	North Reference:	True
Well:	NPR 15D-9 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
8,700.00	1.62	250.00	8,262.24	1,263.87	-2,080.26	2,433.61	0.00	0.00	
8,800.00	1.62	250.00	8,362.20	1,262.90	-2,082.92	2,435.43	0.00	0.00	
8,900.00	1.62	250.00	8,462.16	1,261.93	-2,085.59	2,437.25	0.00	0.00	
9,000.00	1.62	250.00	8,562.12	1,260.96	-2,088.25	2,439.06	0.00	0.00	
9,100.00	1.62	250.00	8,662.08	1,259.99	-2,090.91	2,440.88	0.00	0.00	
9,200.00	1.62	250.00	8,762.04	1,259.02	-2,093.58	2,442.70	0.00	0.00	
9,300.00	1.62	250.00	8,862.00	1,258.05	-2,096.24	2,444.51	0.00	0.00	
9,400.00	1.62	250.00	8,961.96	1,257.08	-2,098.90	2,446.33	0.00	0.00	
9,500.00	1.62	250.00	9,061.92	1,256.11	-2,101.57	2,448.15	0.00	0.00	
9,600.00	1.62	250.00	9,161.88	1,255.15	-2,104.23	2,449.96	0.00	0.00	
9,700.00	1.62	250.00	9,261.84	1,254.18	-2,106.89	2,451.78	0.00	0.00	
9,800.00	1.62	250.00	9,361.80	1,253.21	-2,109.56	2,453.60	0.00	0.00	
9,900.00	1.62	250.00	9,461.76	1,252.24	-2,112.22	2,455.41	0.00	0.00	
10,000.00	1.62	250.00	9,561.72	1,251.27	-2,114.88	2,457.23	0.00	0.00	
10,100.00	1.62	250.00	9,661.68	1,250.30	-2,117.55	2,459.05	0.00	0.00	
10,200.00	1.62	250.00	9,761.64	1,249.33	-2,120.21	2,460.87	0.00	0.00	
10,294.40	1.62	250.00	9,856.00	1,248.42	-2,122.72	2,462.58	0.00	0.00	CAMEO.MBL (TVD)
10,300.00	1.62	250.00	9,861.60	1,248.36	-2,122.87	2,462.68	0.00	0.00	
10,400.00	1.62	250.00	9,961.56	1,247.39	-2,125.54	2,464.50	0.00	0.00	
10,500.00	1.62	250.00	10,061.52	1,246.42	-2,128.20	2,466.32	0.00	0.00	
10,600.00	1.62	250.00	10,161.48	1,245.45	-2,130.86	2,468.13	0.00	0.00	
10,700.00	1.62	250.00	10,261.44	1,244.49	-2,133.53	2,469.95	0.00	0.00	
10,794.60	1.62	250.00	10,356.00	1,243.57	-2,136.05	2,471.67	0.00	0.00	ROLLINS.MBL (TVD)
10,800.00	1.62	250.00	10,361.40	1,243.52	-2,136.19	2,471.77	0.00	0.00	
10,900.00	1.62	250.00	10,461.36	1,242.55	-2,138.85	2,473.58	0.00	0.00	
10,943.56	1.62	250.00	10,504.90	1,242.13	-2,140.01	2,474.37	0.00	0.00	TD at 10943.56
10,944.66	1.62	250.00	10,506.00	1,242.11	-2,140.04	2,474.39	0.00	0.00	TD.MBL (TVD) - NPR 15D-9 596_PBHL

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NPR 15D-9 596_PBHL	0.00	0.00	10,506.00	1,242.11	-2,140.04	14,401,149.70	2,434,867.60	39.622728	-108.178945
- hit/miss target									
- Shape									
- plan hits target center									
- Ellipse (radii L100.00 W50.00 on 250.00 azi)									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well NPR 15D-9 596 - Slot 15D
Company:	Caerus Oil & Gas	TVD Reference:	GL + KB @ 8321.00usft (Original Well Elev)
Project:	Garfield County, CO (UTM 12N)	MD Reference:	GL + KB @ 8321.00usft (Original Well Elev)
Site:	S16-T5S-R96W NPR B16 596	North Reference:	True
Well:	NPR 15D-9 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	3,694.73	3,500.00	WASATCH.MBL (TVD)			
	5,256.65	4,955.00	WASATCH_G_ZONE.MBL (TVD)			
	5,632.36	5,305.00	FORT_UNION.MBL (TVD)			
	7,528.10	7,091.00	OHIO_CREEK.MBL (TVD)			
	7,762.38	7,325.00	WILLIAMS_FORK.MBL (TVD)			
	7,812.40	7,375.00	TOP_GAS.MBL (TVD)			
	10,294.40	9,856.00	CAMEO.MBL (TVD)			
	10,794.60	10,356.00	ROLLINS.MBL (TVD)			
	10,944.66	10,506.00	TD.MBL (TVD)			

Plan Annotations					
	Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
			+N/-S (usft)	+E/-W (usft)	
	175.00	175.00	0.00	0.00	Start Build 3.00
	275.00	274.95	-0.45	-2.58	Start 180.00 hold at 275.00 MD
	455.00	454.71	-2.09	-11.85	Start DLS 3.00 TFO 36.79
	1,081.67	1,065.78	55.06	-123.78	Start 5920.42 hold at 1081.67 MD
	7,002.09	6,580.97	1,203.40	-1,944.60	Start Drop -3.00
	7,711.28	7,273.90	1,273.04	-2,055.04	Start DLS 2.00 TFO 250.00
	7,792.48	7,355.09	1,272.66	-2,056.09	Start 3151.08 hold at 7792.48 MD
	10,943.56	10,504.90	1,242.13	-2,140.01	TD at 10943.56